


```

Db      124  QECQGHCHQDQGRPRKQCCVACBERQEQE-----NPMRRREDEAELEEFEEDQE 175
Qy      206  OSDNPYYDERSLSTRTFEEGHTSVLENTYGRSKLLPAKLNRLVLEANPNAFVLPTH 265
Db      176  QSHNPFHRRSFOSRFEENGHNFRVLQRFASRRPILRGINEFTLILEANPTEVLPNH 235
Qy      266  LDADAILLVIGRGKLMKIHNDNEESVNLBEGDVIRIPAGTFLINRDNNERLHIAFL 325
Db      236  CDAEITYLVTKRGTLFTLHNEKNSTNVPGVVVRPAGSYVLADQNKKEKILLAVLH 295
Qy      326  QTISTPGQKEFFPAGGONPEPILSTFSKELLEALNTOTERLGVYG-----QQREG 378
Db      296  RPNVNPQGEFEFFPAGSQRPQSVYLARSRLLEPAFNTRSQDLDELFCGQSHRRQGGG 355
Qy      379  VTIASQDQIELTRDSESRHRIIRGGESSRGPIYLFNKRPILSKYQATVEAKPEDY 438
Db      356  MFRKASQDQIALSQEATSPR---EKSGE--RFAFNILKTRTPYSNOMRFEACPREF 409
Qy      439  RQLODMQVSYELANTQOSMMGPFENRSTFVVVVVAGDADVEACPHLSGRHGRGCGK 498
Db      410  RQLSINVTYSALQNGSITFPHYNSKATFVVLVNGNGYEVWSPHLRQSSFEDEE 469
Qy      499  RHIEEEV-----HYDVARRLSKREALVVLAGHPVYFVSSGNNLLRPAFG-----IN 547
Db      470  QQQEQQEQRSGQYKRIKRSQGLFVVPANFPVTPVASQNNQNRMTGFGLYNNIN 529
Qy      548  AONHNENTLARGENVLQQITPQAMELAFPAASKREVELFNQODESTFFFGPPHQHQS 606
Db      530  PDHNRITFVAKRINHVRQWDSQAKELAFGVSSRLVDIEIFNNPDQESYFVS-RQQRAS 586

RESULT      4
US-07-955-905A-24
: Sequence 24, Application US/07955905A
: Patent No. 5770433
: GENERAL INFORMATION:
: APPLICANT:
: TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCA PROTEINS AND
: TITLE OF INVENTION: PRECURSOR
: NUMBER OF SEQUENCES: 28
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07/955, 905A
: FILING DATE: 21-JAN-1993
: CLASSIFICATION: 435
: INFORMATION FOR SEQ ID NO: 24:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 605 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: ORIGINAL SOURCE:
: ORGANISM: Glycine max
: FEATURE:
: NAME/KEY: Protein
: LOCATION: 1..605
: OTHER INFORMATION: /note= "vicillin from G. max"
US-07-955-905A-24

```

	Query Match	25.8%	Score 857.5:	DB: 1;	Length 605;
	Best Local Similarity	32.1%;	Pred. No. 3,5=71;		
	Matches 203; Conservative	133;	Mismatches 197;	Indels 99;	Gaps 18;
Oy	31 YDNQDPPTECCOOCORCRROESDPDOOYICORC-----KEICEEF-----EYNR 77				
	: : : :		: : : :		
Dd	27 TWENKPNH--NKLCQSC-NSESDSYRNDACHARCNLKVKEEECEEGGIPRRPRPDR 83				
	: : : :		: : : :		
Oy	78 QRDPOOYEEOCKRCOR-----RETERPHNMICORCEERY-EKERKROQRYEEOORE 130				
	: : : :		: : : :		

Db	84	EREPPQPEKEDEDEDEOPRPIPRPPQPRROBEHROEBOEMPRKEERKRGKSEEDDED	14.3
OY	131	DEEKEEEMKMGDNKRDPQOQREYEDCRHRCBOOPRLOYOOCORCOOOROHNGSGGLM	19.0
Db	144	EDEEDDER--OPEPPRPHQKE-----ERNEDEDED-----EEOQRSS-----	17.9
OY	191	PORGSGNGYEEGBEKEO-----SDNPPYFDERLSSTPRTERTEGHISVLENFYNGSKLLRAL	24.5
Db	180	-----EESSEDSLRHKKNKMPLEFFSNREFTLKNQYGRIRVLQRFNGNSPOLQNL	23.0
OY	246	KNYRLVILFANPNAPFVLPRTLDAADAILLVIOGRKALKMIRHNRRESNLECGDYIRIPAG	30.5
Db	231	RDYRLLEFNSKPNLTLFPHNADAYLVILNGTALILSVNNDDSDSYRLQSGALRPVSC	29.0
OY	306	TTFFLINDNNERLHIKFLQTIISTPOQYKEFPFAGGONPEPPYSTPSKTEALNUTOT	36.5
Db	291	TTTTVVVNPDDNNENLRITTLAIPVKKPGRESEFFLSTIEAOQSYLOGFSRNLTLESDYTKF	35.0
OY	366	FRLRQVL-----GOQR--EGCVIRASQEOJRETLRDDSERSRMNIRKGCGSSRGPY	41.4
Db	351	EEINKVLFSREBGGQOGBRLOESVIVEISKEQIRALSKRAKSSSKRTI---SSDEKPF	40.6
OY	415	NLFNKRPLYSKXQOATVEYKEDYRQLODMDYVSFTANITQSGSMGFPFNTSTKVVVYA	47.4
Db	407	NLRSDPLYSKTLKFEIIPPEKMDRQRLDDIFLSTVDMGEGALLPHEFNSKAIVILYN	46.6
OY	475	SGEADVENACPHLSGRGGRGGCKRHEEPEVHEO-----VBARLSKREAVITVLAGHP	52.8
Db	467	EGDANIELV-----GLKEBOQOQOQDEOPLVETRKIRAELSBODIFVITPAGYP	51.3
OY	529	VVFVSSGNENLLFAGINAOHNNEFLAGERNVLOQIEPQAMETLAFASRKREVELEFN	58.8
Db	514	VVV--NMTSNLNFAGIENMENNORNFLAGSDQNVISQISQVELAFPSGAQAVEKLLK	57.1
OY	589	SQDSIFPPGCRHOHQOOSPRSTKQOQPLVSTL	62.0
Db	572	NORSEYFVDAQPKKKEGCKNRK--GLSLST	60.1

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RESULT      5
US-07-955-905A-25
: Sequence 25, Application US/07955905A
: Patent No. 5770433
: GENERAL INFORMATION:
: APPLICANT:
: TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
: TITLE OF INVENTION: PRECURSOR
: NUMBER OF SEQUENCES: 28
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25 (FPO)
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07/955,905A
: FILING DATE: 21-JAN-1993
: CLASSIFICATION: 435
: INFORMATION FOR SEQ. ID NO: 25:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 571 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: ORIGINAL SOURCE:
: ORGANISM: Pisum sativum
: FEATURE:
: NAME/KEY: Protein
: LOCATION: 1..571
: OTHER INFORMATION:
: /note="Convallin from P. sativum"
US-07-955-905A-25

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;      OTHER INFORMATION:  /note= "Convicillin from P. salivum"
US-07-955-905A-25

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Query Match      25.0%; Score 833; DB 1; Length 571;
Best Local Similarity 33.2%; Pred. No. 6,1e-69;
Matches 208; Conservative 112; Mismatches 193; Indels 114; Gaps 18;

QY 26 IMSKRYDNQEDPOTECQOCORCROESDPQQOYQCRCKELCEEEYNNQRDQQOY 85
DB 25 VYYAND--EGSETRVPGCRGRQ-----BCKEKEKRHGEPRST 63

QY 86 EOCQKRCORRETEPRIMOICQOCERRRYEKRRKQOK---RYEQORDEDEEYERME 141
DB 64 E-----KEEHE-----EKKOKRYQREKKEQOYQGRHEWRERDEDEQVEEMWG 109

QY 142 GDNKRPQOOREVEDCRRCDEQEPRLQYOCQRCQOQOQHGRGGLMPPQRCGSRYEE 201
DB 110 SQORREPER-----ARLHREER--TKRDRRH-----QREGEDEERS 145

QY 202 GEEKOSDNRYFDERSLSTRFTEEGHISYLENFYGRSKLRLALKNYRLVLEANPAFV 261
DB 146 SSSQEHNFLEKSKNKFLLFENENGHIRLQRFDRSLDFENLQYRLVEYRAKHHTTF 205

QY 262 LPTHLDDADAILVIGRGALKMIHRDNRESYNLECGDVIRIPAGTTFYLLINRDNNERLNI 321
DB 206 LPHIDADAILVNLGKALITVLPSPDRNSYNLERGDTIKIPAGTTSYLVNDDEEDLHV 265

QY 322 AKFLQITSPGOYKKEFPFAGGQNPBYLSTESKEILEALNTOTERLGRV----- 372
DB 266 VDFVLPVNRPGKFEAF--GLSEKNQOYLGRFSKNILEASLNKRYETIEKVLLEEOEKQO 323

QY 373 -----GOOREGVILIRASQEOIRLTPDSESRMHIRGSGSSRGPNYLFNKRPJ 422
DB 324 QLRDKRRTOQGEERD-AIIKVSREOLEELRLAKLAKSS---KSLSPSEEPFNLRSHKRE 378

QY 423 YNNKYGQAEVKEP-DEYRQLODMDVSVFIANTQGSMMGPFFNTSTKVVVVASGEADVE 481
DB 379 YNNKFGKLEITPEKKYLPOLQDLILVSCVEINKGALMIPHNSRAIVLVLVNEGKINLE 438

QY 482 MACPHLSGHRGCGKGRREEEVEHYE-----QVRAARLSKREALIVLAGHPVNVSSG 535
DB 439 LL-----GLKNBOQEREDRKERNNEVORYEARLSPQDVVILPAGHVALISASS 486

QY 536 NENLLFAGINANNHNFELAGRENNVLOQIEPQAMELAFASRKREVELEFNSODESIF 595
DB 487 NINLL--GFGIAKANNQRRNPLSGSDDNVLSQTEPNYKELTFPGSSQEVNRLIKNOSHIF 544

QY 596 PPG-PROHQOQSPRSTKQOQPLVSLID 621
DB 545 ASAEPQKEESQSR--KRSPLSYLD 568

RESULT 6
US-07-955-905A-26
; Sequence 26, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 410 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein

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; ORIGINAL SOURCE:
; ORGANISM: Pisum sativum
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..410
; OTHER INFORMATION: /note= "Vicillin from P. sativum"
US-07-955-905A-26

Query Match      21.4%; Score 712.5; DB 1; Length 410;
Best Local Similarity 37.9%; Pred. No. 5,6e-58;
Matches 151; Conservative 76; Mismatches 142; Indels 29; Gaps 5;

QY 208 DNPYYFDESLSTRFTEEGHISYLENFYGRSKLRLALKNYRLVLEANPAFVLPHTLD 267
DB 20 ENPFIRSNRFQTLVENENGHIRLLQKFPDKRSKIFENLQNYRLLEKSKPHPLPQYTD 79

QY 268 ADAILVIGRGALKMIHRDNRESYNLECGDVIRIPAGTTFYLLINRDNNERLHIAFLQY 327
DB 80 ADFLLVLSGKATLVVLSKNDNSFNLERGDAIKLPAGSIAYFANNRDNDEPRVLDLAI 139

QY 328 ISTPGQKKEFPFAGGQNPBYLSTESKEILEALNTOTERLGVLGQOR----- 376
DB 140 VNKPGQLQSLSTQGNQKSLSGFSKNILEAFNTNTEIEKVLLEQDOEPQHRSLK 199

QY 377 -----EGVILIRASQEOIRLTPDSESRMHIRGSGSSRGPNYLFNKRPVSNKYG 428
DB 200 DRQELNEENVIVIKVSRDIEELSKNAKSS---KVSSESGGFNLSRNPDIYSNKG 255

QY 429 QAVEYKPEYRLOMDVSVFIANTQGSMMGPFFNTSTKVVVVASGADVEMACPHLS 488
DB 256 KFEETPEKNQOQLODIDIVSVSDIKVGLLIPNNSRAIVLVYTEGQDELDVGQR-- 313

QY 489 GRHGRGCGKGRREEEVEV--HYEQVRAARLSKREALIVLAGHPVNVSSGENLLFARGI 546
DB 314 NENQCKENDEKEQEEERSKQOVLRAKLSPGDVVILPAGHVALINASSDLNI--GLGI 371

QY 547 NAQNNHNFELAGRENNVLOQIEPQAMELAFASRKREVE 584
DB 372 NANNERNFLAGEEDNVISQVERPVKELAFPGSSHEVD 409

RESULT 7
US-07-955-905A-27
; Sequence 27, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Phaseolus vulgaris
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..421
; OTHER INFORMATION: /note= "Vicillin from P. vulgaris"
US-07-955-905A-27

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Db 346 RSRDRRSKSKNDKSYNHRKSKRDREODRKSKE--KRGSDDKSSVKSGSRKQSEDT 403
QY 180 RQHGRGDDLMPORGSGRYEEGEKQSD 208
Db 404 NTEKSEDTKNEVNGTSEDIKSEDTQSN 432

RESULT 14

US-09-234-613-47
; Sequence 47, Application us/09234613
; Patent No. 6132973
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Bandman, Olga
; APPLICANT: Shah, Purni
; APPLICANT: Au-Young, Janice
; APPLICANT: Yue, Henry
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; TITLE OF INVENTION: HUMAN REGULATORY MOLECULES
; NUMBER OF SEQUENCES: 98
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/234,613
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/933,750
; FILING DATE: September 23, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0356 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 432 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: TLYMOT04
; CLONE: 2926777
US-09-234-613-47

Query Match 4.1%; Score 138; DB 3; Length 432;
Best Local Similarity 22.5%; Pred. No. 0.00012;
Matches 47; Conservative 43; Mismatches 87; Indels 32; Gaps 6;

QY 20 KREEDIDMKYVNOEPOTECQCCQRCHQSDRQOQYCCRRKEICEEEETNNRQR 79
Db 236 KRREEP-----DRDELKKEKQEREREKEREREKERRRR---EEEREKERAR 285
QY 80 DPQOQTEQ-----CQRCOR-----RETEPRHMOICQOCERREYERKKRQOK 122
Db 286 DRERRRRSRSHSSTSDRCRCSRDHKRSRERRRRTSRDRRRSRSHDSEKSKHS 345

QY 123 RYEDQOR---EDEEKEYEERKKEGDNKRDPQOQREYEDCRHRCEDQEPRLQYQOCRCQEDQ 179
Db 346 RSRDRRSKSRDRKRSYKHSKSRDRREODRKSKE--KRGSDDKSSVKSGSRKQSEDT 403
QY 180 RQHGRGDDLMPORGSGRYEEGEKQSD 208
Db 404 NTEKSEDTKNEVNGTSEDIKSEDTQSN 432

RESULT 15

US-08-918-914-4
; Sequence 4, Application US/08918914
; Patent No. 5876963
; GENERAL INFORMATION:
; APPLICANT: Mitchell, Peter
; APPLICANT: Hutchinson, Nancy
; APPLICANT: Lawton, Michael
; APPLICANT: Magna, Holly
; APPLICANT: Yocum, Sue
; APPLICANT: Murry, Lynn E.
; TITLE OF INVENTION: HUMAN NUCLEOTIDE PYROPHOSPHORYLASE
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/918,914
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0369
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 788 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1070094
US-08-918-914-4

Query Match 4.1%; Score 138; DB 2; Length 788;
Best Local Similarity 25.4%; Pred. No. 0.00031;
Matches 51; Conservative 32; Mismatches 68; Indels 50; Gaps 7;

QY 12 RRVSCDKRFEDIDMSKYD--NQEDPOTECQCCQ-----RRCRQESDPQO 57
Db 148 RKRQGGDAVBEVGMWTMSHCSNGHEVRSQACEYGRKIQRGCPARSAPQVPAPPA 207
QY 58 QOYCRCKEICEEEFEYNNRDPQOQYECQCRQCRRETEPRHMOICQOCERREYERKK 117
Db 208 QOYAPR-----AEYFSAQOQOQOQREOQOQREOQHREHQAFLQOHOQOQOQOQOQO 259
QY 118 RQOQRYEEOQREDEKYEERKKEGDNKRDPQORE-----YEDCRHRCEDQEPRLQYQOCO 172

Fri Mar 2 09:30:10 2001

us-09-331-631a-5.rai

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Db      260  RRPQRQRPQRPQRPQ-----RRPQRPQSTSTGHE---LHLDQRQEQQQQQQQ 303
QY      173  RRCQEQQRQHQHGRGGLMNPQR 193
        :::::
Db      304  QQQQQQQQRPQ-----QNPQ 317

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Search completed: March 1, 2001, 15:49:44
Job time: 389 sec